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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
087520,079	08/28/95	YAMAZAKI		8	
		MM21/0505 AND FERGUSON	7	JACKSON	EXAMINER JR, J
3180 GREENSB 3UITE 800 1CLEAN VA 22			[ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)			
Office Action Summary	320079	Tamezaki			
omoc Action Summary	Examiner /	Group Art Unit			
·		28/3			
—The MAILING DATE of this communication appe	ears on the cover sheet l	peneath the correspondence address			
Pridfr Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	TO EXPIRE 3	MONTH(S) FROM THE MAILING DATE			
 Extensions of time may be available under the provisions of 37 CFF from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, such period shall, by defaulting to reply within the set or extended period for reply will, by state 	reply within the statutory minim	num of thirty (30) days will be considered timely.			
Status					
Responsive to communication(s) filed on 3/4/	99	•			
☐ This action is FINAL.					
☐ Since this application is in condition for allowance except accordance with the practice under <i>Ex parte Quayle</i> , 19	ot for formal matters, pros 35 C.D. 11; 453 O.G. 213	ecution as to the merits is closed in			
Pisp siti n of Claims					
D(Claim(s) 73-134					
Of the above claim(s)	is/are pending in the application.				
Of the above claim(s)	is/are withdrawn from consideration.				
☐ Claim(s) 73-/3 / ☐	is/are allowed.				
S Claim(s)		is/are rejected.			
□ Claim(s)		is/are objected to.			
☐ Claim(s)		are subject to restriction or election requirement.			
pplication Papers	,	requirement.			
☐ See the attached Notice of Draftsperson's Patent Drawin					
☐ The proposed drawing correction, filed on	is 🗆 approved 🛭	□ disapproved.			
☐ The drawing(s) filed on is/are object	cted to by the Examiner.				
☐ The specification is objected to by the Examiner.					
☐ The oath or declaration is objected to by the Examiner. i rity under 35 U.S.C. § 119 (a)-(d)					
☐ Acknowledgment is made of a claim for foreign priority u	nder 35 U.S.C. § 11 9(a)-(a	d).			
☐ All ☐ Some* ☐ None of the CERTIFIED copies of ☐ received.	the priority documents have	ve been			
☐ received in Application No. (Series Code/Serial Number	er)	·			
☐ received in this national stage application from the Inte		ule 1 7.2(a)).			
*Certified copies not received:					
tachment(s)		•			
	o(s). 25	erview Summary, PTO-413			
Information Disclosure Statement(s), PTO-1449. Paper N	Notice of Reference(s) Cited DTC and				
		tice of Informal Patent Application, DTO 45			
 ✓ Information Disclosure Statement(s), PTO-1449, Paper N □ Notice of Reference(s) Cited, PTO-892 □ Notice of Draftsperson's Patent Drawing Review, PTO-948 	□No	tice of Informal Patent Application, PTO-15			

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

*U.S. GPO: 1997-433-221/62717

Part of Paper No.

Application/Control Number: 08/520079

Art Unit: 2815

2.

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

Claims 73-134 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang '

733 or '360 or '426 in view of Yamazaki '636.

Zhang in each reference teaches a recrystallized thin film transistor in which the crystal

grain boundaries are much larger than the length of the channel regions. From Yamazaki it would

have been obvious to have practiced carbon, nitrogen, and oxygen impurities at a concentration

below 5x10E18/cm to improve the carrier lifetimes. Recitations of spin densities, etc are

considered inherent properties possessed by the prior art applied. No claims are allowable.

3. Applicant's arguments filed 4 March 1999 have been fully considered but they are not

persuasive. Applicant's reference to figure 7 of his specification shows that the present invention

and Zhang have the same structure. The size of the monodomains are considered to be much

larger than channel regions. Thus claiming channel regions in monodomains it is not considered

patentable in view of Zhang. The other Zhang articles likewise teach large crystalline

monodomains where channel regions are formed. Applicant's argument concerning the "S" value

is not convincing unless applicant can positively prove the prior art does not possess the same

property.

Jerøme Jackson, Jr. Phimary Examiner

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4. Claims 123, 129 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards

as the invention.

The recitation "S" value is vague and indefinite.

Any inquiry concerning this communication should be directed to Jerome Jackson at telephone number (703) 308-4937 or the receptionist at 308-0956.

Jeromo Jackson, Jr. Prima: Examiner